

Mat E 272-C
Fall 2001 – Homework Set # 10

Due Thursday December 13, 2001

**You may pick up your graded homework anytime after Monday
December 17, outside 253 Spedding**

Graded problems:

Chapter 15 : 15.4, 15.16

Chapter 16: 16.16, 16.18 (part “a” only)

Chapter 19: 19.3, 19.6, 19.9, 19.20

Hints:

15.4: since the answer is given in the book, you must show your work in order to receive full credit

15.16: Since this is an alternating copolymer, the number of both types of mer units are the same. Calculate the molecular weight of one combined styrene and butadiene mer and from this, determine the number-average degree of polymerization.

16.16: Assume the maximum temperature of the coffee is 100°C

19.20: Use equations 19.3 and 19.4

Suggested problems:

18.1, 18.3, 18.13 (use equation 18.23), 18.24, 18.27

19.23, 19.26